

SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution affiliated to Anna University, Chennai)

DEPARTMENT OF AGRICULTURE ENGINEERING



CURRICULUM & SYLLABUS (I to VIII Semester)

(CHOICE BASED CREDIT SYSTEM)

REGULATIONS 2019



CHAIRPERSON
BOARD OF STUDIES
AGRICULTURE ENGINEERING
SETHU INSTITUTE OF TECHNOLOGY
KARIAPATTI - 626 115



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Pulloor, Kariapatti - 625 115

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OVERALL COURSE STRUCTURE

Code	Category	Total No of Courses	Credits	Percentage
BS	Basic Sciences	10	28.5	15
ES	Engineering sciences	9	22	14
HSS	Humanities and Social Sciences	5	9.5	8
PC	Professional Core	27	67	41
PE	Professional Electives	6	18	9
OE	Open Electives	4	12	6
PW	Project work, Seminar & Internship	5	15	8
	TOTAL	66	172	100

COURSE CREDIT – SEMESTER WISE

Branch	I	II	III	IV	V	VI	VII	VIII	TOTAL
AGRI	23	20.5	23	23.5	23.5	25.5	19	14	172

Employability Courses

Skill Development Courses

Entrepreneurship Development Courses

Any two or all of the above

SEMESTER I

SL.NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	19UEN101	English for Technical Communication	2	0	0	2
2.	19UMA102	Engineering Mathematics – I	3	1	0	4
3.	19UPH103	Engineering Physics	3	0	0	3
4.	19UCY107	Chemistry for Agriculturist	3	0	0	3
5.	19UCS108	Problem Solving and Python Programming	3	0	0	3
6.	19UME109	Engineering Graphics	3	1	0	4
PRACTICAL						
7.	19UGS113	Basic Sciences Laboratory	0	0	2	1
8.	19UME111	Engineering Practices Laboratory	0	0	3	1.5
9.	19UCS110	Problem Solving and Python Programming Laboratory	0	0	3	1.5
10.	19UGM131	Induction Programme	Mandatory			
TOTAL			17	2	8	23
TOTAL NO. OF CREDITS – 23						

SEMESTER II

SL.NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	19UEN201	Communication Skills for Professionals	1	0	1	1.5
2.	19UMA207	Calculus, Complex Analysis and Transform Techniques	3	1	0	4
3.	19UPH207	Green Physics	3	0	0	3
4.	19UEE226	Basic Electrical and Electronics Engineering	3	0	0	3
5.	19UAG201	Introduction to Agricultural Engineering	3	0	0	3
6.	19UCY204	Environmental Science	3	0	0	3
PRACTICAL						
7.	19UGS210	Energy and Environmental Science Laboratory	0	0	2	1.5
8.	19UEE221	Basic Electrical and Electronics Engineering Laboratory	0	0	3	1.5
TOTAL			16	1	6	20.5
TOTAL NO. OF CREDITS –20.5						

SEMESTER III

SL.NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	19UMA326	Transform Techniques and Partial Differential Equations	3	1	0	4
2.	19UAG302	Unit Operations in Agricultural Processing	3	0	0	3
3.	19UAG303	Fundamentals of Engineering Mechanics	3	0	0	3
4.	19UAG304	Fundamentals of Theory of Machines	3	0	0	3
5.	19UAG305	Fluid Mechanics and Open Channel Hydraulics	3	0	0	3
6.	19UAG306	Principles and Practices of crop Production	3	0	0	3
7.	19UGM332	Biology for Engineering Applications	1	0	0	P/F
PRACTICAL						
8.	19UAG307	Seminar	0	0	2	1
9.	19UAG308	Agricultural Meteorology and Crop Husbandry Laboratory	0	0	3	1.5
10	19UAG309	Fluid Mechanics Laboratory	0	0	3	1.5
TOTAL			18	1	8	23
TOTAL NO. OF CREDITS - 23						

SEMESTER IV

[illegible]

SEMESTER V

[illegible]

SEMESTER VI

[illegible]

SEMESTER VII

[illegible]

SEMESTER VIII

SL.N O	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.		Professional Elective – VI	3	0	0	3
2.		Open Elective – IV	3	0	0	3
PRACTICAL						
3.	19UAG801	Project Work - II	0	0	16	8
TOTAL			6	0	16	14
TOTAL NO. OF CREDITS - 14						

PROFESSIONAL ELECTIVES

SL.NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	19UAG901	Manufacturing Technology	3	0	0	3
2.	19UAG902	Soil and Water Conservation Structures	3	0	0	3
3.	19UAG903	Watershed Planning and Management	3	0	0	3
4.	19UAG904	Landscape Irrigation Design and Management	3	0	0	3
5.	19UAG905	Energy Auditing and Management	3	0	0	3
6.	19UAG906	Fundamentals of Heat and Mass Transfer	3	0	0	3
7.	19UAG907	Design and Construction of Greenhouse	3	0	0	3
8.	19UAG908	IoT Application in Agriculture Engineering	3	0	0	3
9.	19UAG909	Design of Food Processing Equipment	3	0	0	3
10.	19UAG910	Agricultural Extension	3	0	0	3
11.	19UAG911	Drying and Storage Engineering	3	0	0	3

ONE CREDIT COURSES

SL.No	COURSE CODE	COURSE TITLE	L	T	P	C
1.	19UAG861	Mushroom Cultivation Technology	1	0	0	1
2.	19UAG862	Vermi Compost Technology	1	0	0	1
3.	19UAG863	Entrepreneurship in Agriculture	1	0	0	1
4.	19UAG864	AI in Agriculture	1	0	0	1
5.	19UAG865	Seed Production Technology	1	0	0	1
6.	19UAG866	Solar PV system	1	0	0	1

OPEN ELECTIVES

SL.NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	19UAG971	Organic Farming Technology	3	0	0	3
2.	19UAG972	Basics of Landscape Gardening	3	0	0	3
3.	19UAG973	Agricultural Farm structures	3	0	0	3
4.	19UAG974	Agribusiness Management	3	0	0	3